

BIOLAB INC FACILITY FIRE

Westlake, LA
Preliminary Daily Air Monitoring Summary
September 16, 2020
Project #113436

1.0 Introduction

On August 27, 2020 at approximately 11:00 Central Standard Time (CST), BioLab Inc requested that CTEH® provide air monitoring and analytical air sampling support in response to a facility fire at the Westlake, LA facility. CTEH® arrived on-site on August 27, 2020 and began real-time air monitoring at 16:00 CST. Community real-time air monitoring was discontinued on September 2, 2020 at approximately 17:00. Analytical air samples for chlorine and volatile organic compounds (VOCs) were deployed throughout the community, at upwind and downwind locations. This report summarizes real-time air monitoring data collected in the work area from September 15, 2020 06:00 CST to September 15, 2020 18:00 CST. CTEH concluded air monitoring throughout the evening shift on September 11, 2020 at 18:00 CST.

2.0 Air Monitoring and Sampling Methods

CTEH® developed and implemented an Air Sampling and Analysis Plan (SAP) to document and quantify the potential release of fugitive emissions from the incident. Real-time air monitoring was conducted in accordance with three plans outlined in the SAP: Community Monitoring, Work Area Monitoring, and Site Assessment Monitoring. Community Monitoring was conducted in areas beyond the work area including residential areas and businesses. Work Area Monitoring was conducted in areas where workers were actively involved in response operations. Unlike Community and Work Area Monitoring, Site Assessment Monitoring does not necessarily represent ambient air monitoring near breathing zone level. Site Assessment may involve a variety of different monitoring tasks intended to provide information that may help to delineate the nature and extent of the release.

CTEH personnel conducted real-time air monitoring in the community and work area for chlorine (Cl₂) and particulate matter (PM_{2.5}), using handheld instruments including RAE Systems MultiRAEs and AM520s.

All instrumentation was calibrated at least once per day or per manufacturer's recommendations. Roaming air monitoring was generally performed in work areas in the presence of workers performing/supporting mitigation and remediation operations with handheld instruments.

3.0 Air Monitoring Results

Attachment A provides maps of the incident location and the locations of handheld air monitoring locations in the community and work area. **Table 1** summarizes the results of handheld air monitoring.

Table 1: Handheld Real-Time Air Monitoring Results



Location Category	Analyte	Instrument	# of Readings	# of Detections	Range*
Work Area Monitoring	Cl ₂	MultiRAE	92	0	< 0.1 ppm
	PM _{2.5}	AM520	92	92	0.012 – 0.053 mg/m ³

^{*} If no detection was observed, the instrument detection limit preceded by a "<" symbol is listed. These data have not undergone QAQC and should be considered preliminary at this time. †Volatile organic compounds.



4.0 Analytical Air Sampling Methodology

CTEH® deployed analytical air samples in four distinct locations in the community between August 28, 2020 to September 2, 2020. Evacuated canister (Minican™) samplers were regulated to continuously collect air over a 24-hour period for analysis for VOCs by EPA method TO-15. Additionally, sampling pumps were deployed to collect chlorine samples following method NIOSH 6011. A map indicating the location of these analytical air sampling stations is provided in **Attachment B**. **Table 2**, below, presents a summary of the cumulative summary of analytical air samples for the response.

Table 2: Cumulative Analytical Air Samples

	Count of Samples	Count of Samples	Count of Results
Analysis	Deployed	Collected	Received from Lab
SKC (Chlorine NIOSH 6011)	48	48	48
Minican (VOC TO-15 +TICS)	28	28	26 ¹

 $^{^1}$ Two minican samples collected at AS003 on 8/29/2020 and 8/31/2020 were deployed but not analyzed due to compromised sample integrity.

5.0 Weather Conditions

Attachment C contains wind roses depicting wind speed and direction for this reporting period. Data were acquired from the Chennault International meteorological stations. Chennault International Station is located on 3650 Sen J Bennett Johnston Ave., approximately 10 miles southeast of the incident site.



Attachment A

CTEH Air Monitoring Locations





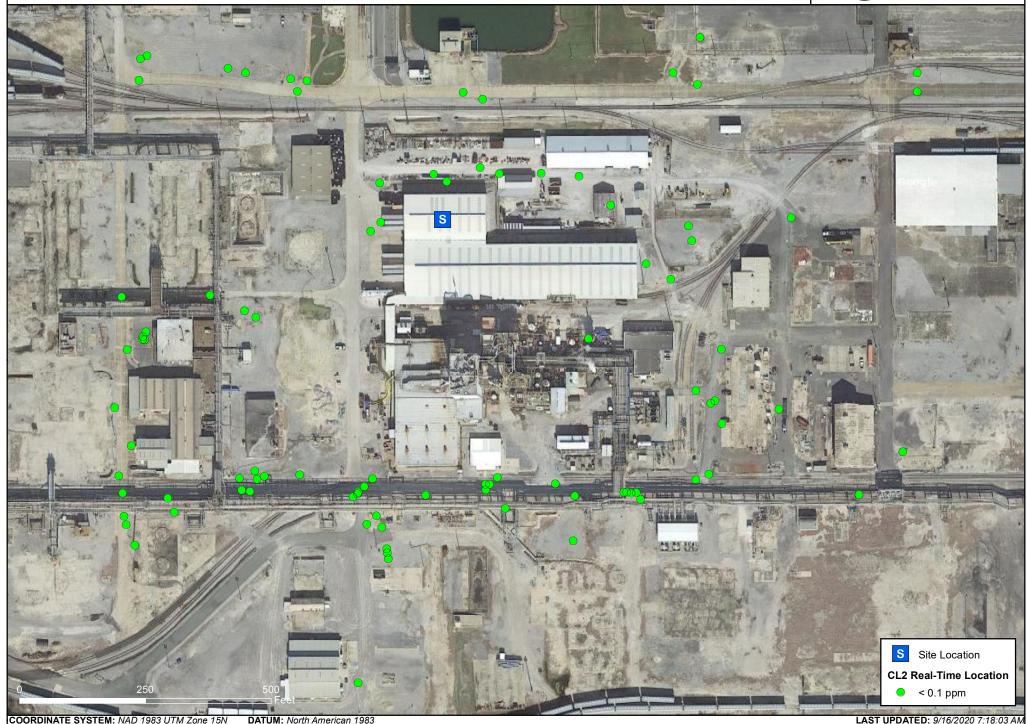
Project: 111346 Client: BioLab City: Westlake, LA Parish: Calcasieu





Handheld Real-Time Work Area Monitoring Locations (Cl₂) BioLab Inc Facility Fire I Westlake, LA | 9/15/2020 06:00 - 9/15/2020 18:00 CST

Project:113436 Client: BioLab City: Westlake, LA Parish: Calcasieu



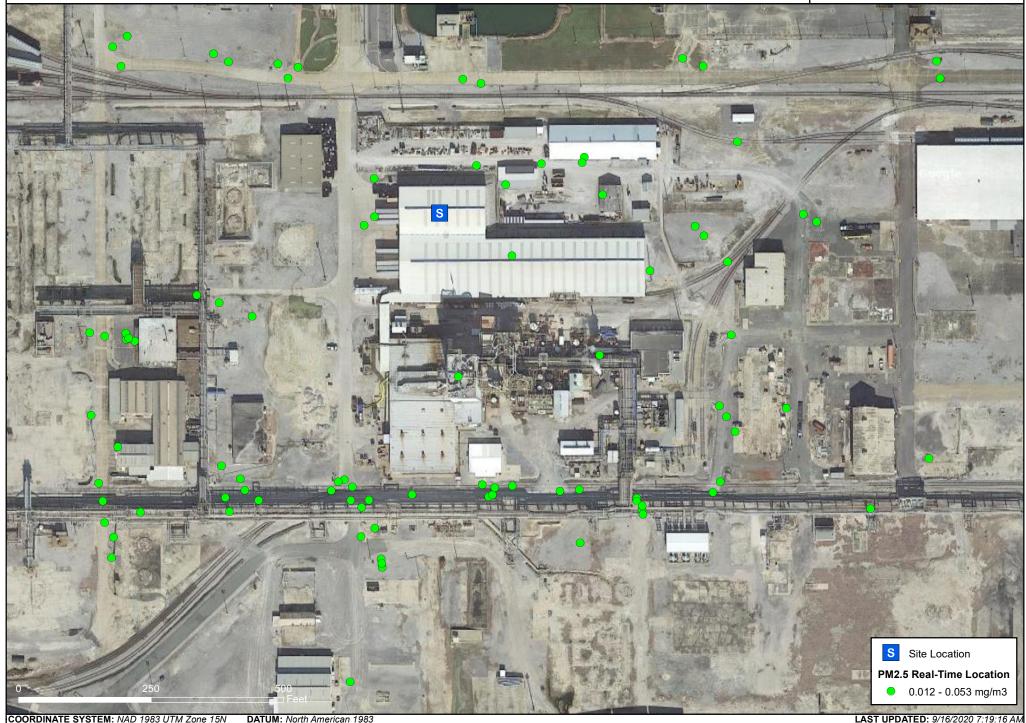


Handheld Real-Time Work Area Monitoring Locations (PM_{2.5})

BioLab Inc Facility Fire I Westlake, LA | 9/15/2020 06:00 - 9/15/2020 18:00 CST



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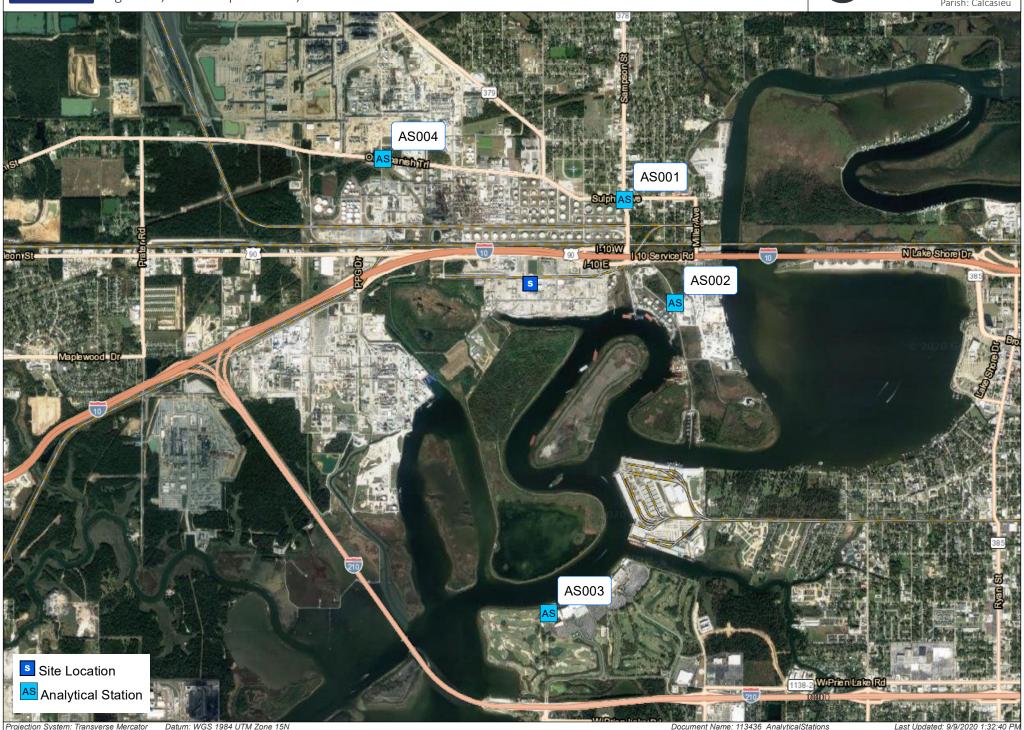


Attachment B

Analytical Air Sampling Locations



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Attachment C

Meteorological Conditions



